

ASDSE
20-2,4,4 V6



5129 N. Shirley St. Suite 100, Ruston, WA 98407

January 14, 2011

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 175, December 2010
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,


Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay



Monthly Report 175, December 2010
Operable Unit 02
Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Met with EPA on December 10th for coordination meeting.
2. Work with City of Tacoma on reimbursement for completion of construction of the sanitary sewer project.
3. Erosion control BMP's were maintained after storm events, including replacement of silt fences and exclusion zone fence. On-going maintenance continues.
4. Continued weekly site-inspection reports (see attached).
5. Maintained clean work area and road.
6. Remedial Action activities continued.
7. Training activities include the following:
 - Site Safety Orientations (Clean Zone) was held for personnel of the following companies:
 - i. Two (2) Emerald Services workers
 - ii. One (1) Gibson Trucking worker
 - iii. One (1) Papé Material Handling worker
 - iv. One (1) Sound Delivery worker
 - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. One (1) Point Ruston worker
 - Other relevant monitoring or training was verified or completed by personnel of the following companies:

B. *Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.*

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Monthly Report 175, December 2010
Operable Unit 02
Asarco Tacoma Smelter Site

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from May-October, and in December, February, and April.

In addition to the North and South Outfalls, Point Ruston monitors an existing, upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Outfall samples were collected in November in lieu of October. Samples results for December 2010 are attached.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 117 gallons per day on the LCRS. 4,682 gallons of leachate were hauled on December 30. A copy of the laboratory analysis for the shipment is attached (Arsenic 1.9 mg/L).
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring was conducted on December 27. Perimeter air monitoring was not conducted on the remaining days due to wet site conditions caused by the weather. Perimeter air monitoring will resume when the weather allows the site to dry out. Results for samples collected in December are pending laboratory analysis and will be submitted with the January 2011 monthly report.
4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in December.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:
 - Point Ruston, through Hydrometrics, is working on responses to comments received for the Temporary Cap Plan, Sequence of

Monthly Report 175, December 2010
Operable Unit 02
Asarco Tacoma Smelter Site

Development and Occupancy Plan (SDOP), BNSF Excavation & RA Plan, Ruston Way SAP, and the Operations Maintenance, and Monitoring Plan. Hydrometrics submitted a draft temporary capping plan and specifications for discussion as a part of the SDOP. The discussion of this plan is on-going.

2. Remedial Action included the following tasks:

- OCF construction activities:
 - Maintained leachate collection system.
 - Inspected storm drain system, vaults and cover.
- Stack Hill construction activities:
 - Maintained erosion and surface water controls; specifically on Commercial Street cul-de-sac area.
 - Maintained site perimeter fence and signage at the north end of Stack Hill.
- Site-wide remediation/redevelopment activities:
 - Continued surface water controls
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence along Ruston Way
 - Continued site-wide dust monitoring and control through site and access road watering, as needed
 - Continued air-monitoring program per CH&SP

D. Actions scheduled for the next six weeks.

1. Continue construction of public infrastructure. The sanitary sewer project was completed, tested and submitted for acceptance to the City of Tacoma, and Town of Ruston. Final LID formation is underway, with water and power scheduled as next phases.
2. Work on CH&SP air monitoring plan submittal to address recent EPA comments.
3. The deliverables specified in the BN Remedial Action Plan have been delivered to EPA for review. Upon approval of the Excavation and RA Plan excavation is scheduled to begin early next year.
4. Obtain final approvals from the Town of Ruston and the City of Tacoma for the road portion of the Master Infrastructure/LID project. The items

Monthly Report 175, December 2010

Operable Unit 02

Asarco Tacoma Smelter Site

remaining are resolution of the City's concerns relative to Bore Hole 3 and the signing of mylars.

5. Continue to work on response to address EPA comments regarding Occupancy Plan Development, and submit a proposal for a Temporary Cap in compliance with the Consent Decree.
6. Discuss Monitoring Wells and overall CH&SP monitoring plan for Site
7. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan
8. Continue to work on response to EPA comments regarding the Point Ruston CC&Rs
9. Complete the ASARCO Dock Removal Project by DNR's contractor.
10. Begin shoreline armoring project through DNR.

The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities (not conducted during wet weather conditions when no work is underway.)

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance
- b. Continue home construction

Site-wide construction activities:

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure

E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I CMP; LID processes are ongoing.

Monthly Report 175, December 2010
Operable Unit 02
Asarco Tacoma Smelter Site

2. Point Ruston is coordinating with BNSF to secure a quit claim deed for the area adjacent to Ruston Way; Point Ruston submitted EPA completion letter for SAP, and the second closing is pending.

F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA and Point Ruston continue discussions regarding a proposed schedule modification.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues to work with MetroParks to incorporate the capping component into the Peninsula Park design. Point Ruston has responded to Metro Parks draft engineering analysis for the Peninsula Park site.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
4. The Washington Dept. of Natural Resources completed its demolition of the Asarco docks along the frontage of the site in late December. Point Ruston and DNR continue to discuss implementation of on-going cooperative efforts to complete the remaining in-water and shoreline armoring actions at the site.

Table 1. Summary of December 2010 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.106	21.28%	0.052	10.40%	0.052	10.40%
OSW2	0.049	9.76%	0.016	3.20%	0.002	0.40%
North Outfall	0.024	4.80%	0.032	6.40%	0.026	5.20%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

ANALYTICAL SUMMARY REPORT

January 10, 2011

Point Ruston LLC
 5219 N Shirley St Ste 100
 Ruston, WA 98407-6599

Workorder No.: B11010118

Project Name: Tacoma Smelter Outfall Samples

Energy Laboratories Inc Billings MT received the following 15 samples for Point Ruston LLC on 1/4/2011 for analysis:

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B11010118-001	TSM1210106, South	12/06/10 10:57	01/04/11	Aqueous	Metals by ICP/ICPMS, Total Metals Preparation by EPA 200.2
B11010118-002	TSM1210406, North	12/06/10 13:20	01/04/11	Aqueous	Same As Above
B11010118-003	TSM1210206, OSW-2	12/06/10 10:58	01/04/11	Aqueous	Same As Above
B11010118-004	TSM1210413, North	12/13/10 9:45	01/04/11	Aqueous	Same As Above
B11010118-005	TSM1210113, South	12/13/10 10:01	01/04/11	Aqueous	Same As Above
B11010118-006	TSM1210213, OSW-2	12/13/10 10:02	01/04/11	Aqueous	Same As Above
B11010118-007	TSM1210420, North	12/20/10 14:20	01/04/11	Aqueous	Same As Above
B11010118-008	TSM1210120, South	12/20/10 13:45	01/04/11	Aqueous	Same As Above
B11010118-009	TSM1210220, OSW-2	12/20/10 13:46	01/04/11	Aqueous	Same As Above
B11010118-010	TSM1210427, North	12/27/10 8:03	01/04/11	Aqueous	Same As Above
B11010118-011	TSM1210127, South	12/27/10 8:22	01/04/11	Aqueous	Same As Above
B11010118-012	TSM1210227, OSW-2	12/27/10 8:19	01/04/11	Aqueous	Same As Above
B11010118-013	TSM0111403, North	01/03/11 11:06	01/04/11	Aqueous	Same As Above
B11010118-014	TSM0111103, South	01/03/11 11:43	01/04/11	Aqueous	Same As Above
B11010118-015	TSM0111203, OSW-2	01/03/11 11:44	01/04/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Cindy Rohrer
 Inorganic Department Manager

Digitally signed by
 Cindy Rohrer
 Date: 2011.01.10 16:47:58 -07:00



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4469 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-001
Client Sample ID: TSM1210106, South

Report Date: 01/10/11
Collection Date: 12/06/10 10:57
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.065	mg/L		0.005		E200.8	01/06/11 02:49 / jjw
Copper	0.03	mg/L		0.01		E200.8	01/06/11 02:49 / jjw
Zinc	0.03	mg/L		0.01		E200.8	01/06/11 02:49 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1852

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-002
Client Sample ID: TSM1210406, North

Report Date: 01/10/11
Collection Date: 12/06/10 13:20
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.020	mg/L		0.005		E200.8	01/06/11 03:10 / jjw
Copper	0.02	mg/L		0.01		E200.8	01/06/11 03:10 / jjw
Zinc	0.01	mg/L		0.01		E200.8	01/06/11 03:10 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1852

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-003
Client Sample ID: TSM1210206, OSW-2

Report Date: 01/10/11
Collection Date: 12/06/10 10:58
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.049	mg/L		0.005		E200.8	01/06/11 03:14 / jjw
Copper	0.02	mg/L		0.01		E200.8	01/06/11 03:14 / jjw
Zinc	ND	mg/L		0.01		E200.8	01/06/11 03:14 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-004
Client Sample ID: TSM1210413, North

Report Date: 01/10/11
Collection Date: 12/13/10 09:45
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.025	mg/L		0.005		E200.8	01/06/11 03:18 / jjw
Copper	0.04	mg/L		0.01		E200.8	01/06/11 03:18 / jjw
Zinc	0.02	mg/L		0.01		E200.8	01/06/11 03:18 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-005
Client Sample ID: TSM1210113, South

Report Date: 01/10/11
Collection Date: 12/13/10 10:01
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.148	mg/L		0.005		E200.8	01/06/11 03:22 / jjw
Copper	0.08	mg/L		0.01		E200.8	01/06/11 03:22 / jjw
Zinc	0.05	mg/L		0.01		E200.8	01/06/11 03:22 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-006
Client Sample ID: TSM1210213, OSW-2

Report Date: 01/10/11
Collection Date: 12/13/10 10:02
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.042	mg/L		0.005		E200.8	01/05/11 16:22 / jjw
Copper	0.01	mg/L		0.01		E200.8	01/05/11 16:22 / jjw
Zinc	ND	mg/L		0.01		E200.8	01/05/11 16:22 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-007
Client Sample ID: TSM1210420, North

Report Date: 01/10/11
Collection Date: 12/20/10 14:20
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.023	mg/L		0.005		E200.8	01/06/11 03:26 / jjw
Copper	0.04	mg/L		0.01		E200.8	01/06/11 03:26 / jjw
Zinc	0.02	mg/L		0.01		E200.8	01/06/11 03:26 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-008
Client Sample ID: TSM1210120, South

Report Date: 01/10/11
Collection Date: 12/20/10 13:45
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.141	mg/L		0.005		E200.8	01/06/11 03:31 / jjw
Copper	0.05	mg/L		0.01		E200.8	01/06/11 03:31 / jjw
Zinc	0.04	mg/L		0.01		E200.8	01/06/11 03:31 / jjw

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1932

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-009
Client Sample ID: TSM1210220, OSW-2

Report Date: 01/10/11
Collection Date: 12/20/10 13:46
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.060	mg/L		0.005		E200.8	01/06/11 03:35 / jjw
Copper	0.02	mg/L		0.01		E200.8	01/06/11 03:35 / jjw
Zinc	ND	mg/L		0.01		E200.8	01/06/11 03:35 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1852

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-010
Client Sample ID: TSM1210427, North

Report Date: 01/10/11
Collection Date: 12/27/10 08:03
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.027	mg/L		0.005		E200.8	01/06/11 03:39 / jjw
Copper	0.03	mg/L		0.01		E200.8	01/06/11 03:39 / jjw
Zinc	0.06	mg/L		0.01		E200.8	01/06/11 03:39 / jjw

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-011
Client Sample ID: TSM1210127, South

Report Date: 01/10/11
Collection Date: 12/27/10 08:22
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.109	mg/L		0.005		E200.8	01/06/11 03:43 / jjw
Copper	0.05	mg/L		0.01		E200.8	01/06/11 03:43 / jjw
Zinc	0.09	mg/L		0.01		E200.8	01/06/11 03:43 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-012
Client Sample ID: TSM1210227, OSW-2

Report Date: 01/10/11
Collection Date: 12/27/10 08:19
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.048	mg/L		0.005		E200.8	01/06/11 03:47 / jjw
Copper	0.01	mg/L		0.01		E200.8	01/06/11 03:47 / jjw
Zinc	ND	mg/L		0.01		E200.8	01/06/11 03:47 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-013
Client Sample ID: TSM0111403, North

Report Date: 01/10/11
Collection Date: 01/03/11 11:06
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.025	mg/L		0.005		E200.8	01/06/11 04:08 / jjw
Copper	0.03	mg/L		0.01		E200.8	01/06/11 04:08 / jjw
Zinc	0.02	mg/L		0.01		E200.8	01/06/11 04:08 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1832

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-014
Client Sample ID: TSM0111103, South

Report Date: 01/10/11
Collection Date: 01/03/11 11:43
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.069	mg/L		0.005		E200.8	01/06/11 04:12 / jjw
Copper	0.05	mg/L		0.01		E200.8	01/06/11 04:12 / jjw
Zinc	0.05	mg/L		0.01		E200.8	01/06/11 04:12 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillatte, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-015
Client Sample ID: TSM0111203, OSW-2

Report Date: 01/10/11
Collection Date: 01/03/11 11:44
Date Received: 01/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.045	mg/L		0.005		E200.8	01/06/11 04:16 / jjw
Copper	0.02	mg/L		0.01		E200.8	01/06/11 04:16 / jjw
Zinc	0.01	mg/L		0.01		E200.8	01/06/11 04:16 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 01/10/11

Project: Tacoma Smelter Outfall Samples

Work Order: B11010118

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8			Analytical Run: ICPMS202-B_110105A						
Sample ID: QCS - 101221A, 101222A			Initial Calibration Verification Standard						01/05/11 21:57
Arsenic	0.0506	mg/L	0.0050	101	90	110			
Copper	0.0524	mg/L	0.010	105	90	110			
Zinc	0.0518	mg/L	0.010	104	90	110			
Method: E200.8			Batch: 51438						
Sample ID: MB-51438			Method Blank						Run: ICPMS202-B_110105A 01/06/11 02:17
Arsenic	ND	mg/L	5E-05						
Copper	0.0002	mg/L	3E-05						
Zinc	0.0007	mg/L	0.0001						
Sample ID: LCS-51438			Laboratory Control Sample						Run: ICPMS202-B_110105A 01/06/11 02:25
Arsenic	0.486	mg/L	0.0050	97	85	115			
Copper	0.472	mg/L	0.010	94	85	115			
Zinc	0.484	mg/L	0.010	97	85	115			
Sample ID: B11010055-001AMS3			Sample Matrix Spike						Run: ICPMS202-B_110105A 01/06/11 02:29
Arsenic	0.0450	mg/L	0.0050	9	70	130			S
Copper	1.83	mg/L	0.010	161	70	130			S
Zinc	0.558	mg/L	0.010	81	70	130			
Sample ID: B11010055-001AMSD3			Sample Matrix Spike Duplicate						Run: ICPMS202-B_110105A 01/06/11 02:33
Arsenic	0.0293	mg/L	0.0050	5	70	130	42	20	SR
Copper	2.26	mg/L	0.010	245	70	130	21	20	SR
Zinc	0.552	mg/L	0.010	80	70	130	1.1	20	
Method: E200.8			Batch: R159529						
Sample ID: LRB			Method Blank						Run: ICPMS202-B_110105A 01/05/11 12:34
Arsenic	ND	mg/L	3E-05						
Copper	ND	mg/L	8E-05						
Zinc	0.0007	mg/L	0.0001						
Sample ID: LFB			Laboratory Fortified Blank						Run: ICPMS202-B_110105A 01/05/11 12:38
Arsenic	0.0512	mg/L	0.0050	102	85	115			
Copper	0.0546	mg/L	0.010	109	85	115			
Zinc	0.0530	mg/L	0.010	105	85	115			
Sample ID: B11010195-001CMS			Sample Matrix Spike						Run: ICPMS202-B_110105A 01/05/11 16:34
Arsenic	0.0503	mg/L	0.0050	101	70	130			
Copper	0.0534	mg/L	0.010	106	70	130			
Zinc	0.0589	mg/L	0.010	106	70	130			
Sample ID: B11010195-001CMSD			Sample Matrix Spike Duplicate						Run: ICPMS202-B_110105A 01/05/11 16:38
Arsenic	0.0491	mg/L	0.0050	98	70	130	2.4	20	
Copper	0.0520	mg/L	0.010	104	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4488 • Casper, WY 888-235-0515
Gillette, WY 866-688-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 01/10/11

Project: Tacoma Smelter Outfall Samples

Work Order: B11010118

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: R159529		
Sample ID: B11010195-001CMSD		Sample Matrix Spike Duplicate		Run: ICPMS202-B_110105A				01/05/11 16:38	
Zinc	0.0569	mg/L	0.010	102	70	130	3.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



B11010118

Login completed by: Darwin C. Miller

Date Received: 1/4/2011

Reviewed by: BL2000\gmccartney

Received by: jlh

Reviewed Date: 1/5/2011

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	1.8°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

None

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME																	
TACOMA SMelter		OUTFALL SAMPLES																	
SAMPLERS: (Signature)																			
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS													REMARKS
12/10/10	SOUTH	10:57	✓		TSM1210100	1	✓												PLEASE EMAIL RESULTS TO:
12/10/10	NORTH	13:20	✓		TSM1210400	1	✓												tim2@POINTRUSTON.COM
12/10/10	OSW-2	10:58	✓		TSM1210200	1	✓												
12/13/10	NORTH	9:45	✓		TSM1210413	1	✓												
12/13/10	SOUTH	10:01	✓		TSM1210113	1	✓												
12/13/10	OSW-2	10:02	✓		TSM1210213	1	✓												
12/20/10	NORTH	11:20	✓		TSM1210420	1	✓												
12/20/10	SOUTH	13:45	✓		TSM1210120	1	✓												
12/20/10	OSW-2	13:46	✓		TSM1210220	1	✓												THANK YOU
12/27/10	NORTH	08:03	✓		TSM1210427	1	✓												
12/27/10	SOUTH	08:22	✓		TSM1210127	1	✓												
12/27/10	OSW-2	08:19	✓		TSM1210227	1	✓												
1/3/11	NORTH	11:06	✓		TSM0111403	1	✓												
1/3/11	SOUTH	11:43	✓		TSM011103	1	✓												
1/3/11	OSW-2	11:44	✓		TSM0111203	1	✓												
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		Shipped via (FedEx) UPS											
[Signature]		1/3/11 (FedEx)		[Signature]		ENERGY		or Other 796617420537											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks													
[Signature]				[Signature]															
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:											
[Signature]				[Signature]		1-4-11 9:10		<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter											

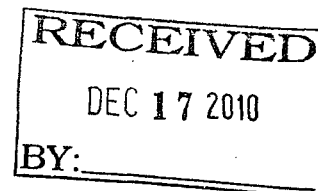
Fedex express
1.8°C no ice
2005-2Split Samples:
[] Accepted [] Declined

Signature



SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com



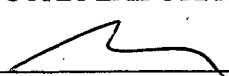
12/15/2010

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 11/30/2010
Spectra Project: 2010110589

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8230592	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/12/2010
8230592	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/12/2010
8230591	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/12/2010
8230591	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/12/2010
8230590	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/12/2010
8230590	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/12/2010
8230589	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/15/2010
8230589	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/15/2010
8230588	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/15/2010
8230588	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/15/2010
8230587	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/15/2010
8230587	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/15/2010
8230585	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/16/2010
8230585	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/16/2010
8230584	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/16/2010
8230584	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/16/2010

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com


12/15/2010

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 11/30/2010
Spectra Project: 2010110589

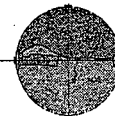
<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8230583	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/16/2010
8230583	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/16/2010
8230582	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/17/2010
8230582	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/17/2010
8230581	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/17/2010
8230581	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/17/2010
8230580	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/17/2010
8230580	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/17/2010
8230586	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/15/2010
8230586	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/15/2010
8230579	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2010
8230579	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2010
8230578	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2010
8230578	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2010
8230577	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2010
8230577	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2010

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2010110589

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
SAMPLERS (Signature)							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
11/12/10	SG		✓		8230592	1	✓
11/12/10	OCF-VI		✓		8230591	1	✓
11/12/10	OCF-NW		✓		8230590	1	✓
11/15/10	SG		✓		8230589	1	✓
11/15/10	OCF-VI		✓		8230588	1	✓
11/15/10	OCF-NW		✓		8230587	1	✓
11/16/10	SG		✓		8230585	1	✓
11/16/10	OCF-VI		✓		8230584	1	✓
11/16/10	OCF-NW		✓		8230583	1	✓
11/17/10	SG		✓		8230582	1	✓
11/17/10	OCF-VI		✓		8230581	1	✓
11/17/10	OCF-NW		✓		8230580	1	✓
11/15/10	CONTROL			✓	8230586	1	✓
11/29/10	SG		✓		8230579	1	✓
11/29/10	OCF-VI		✓		8230578	1	✓

AS, Pb

R

PLEASE EMAIL RESULTS TO:
 TIM@POINTRUSTON.COM

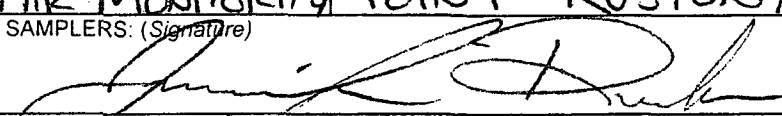
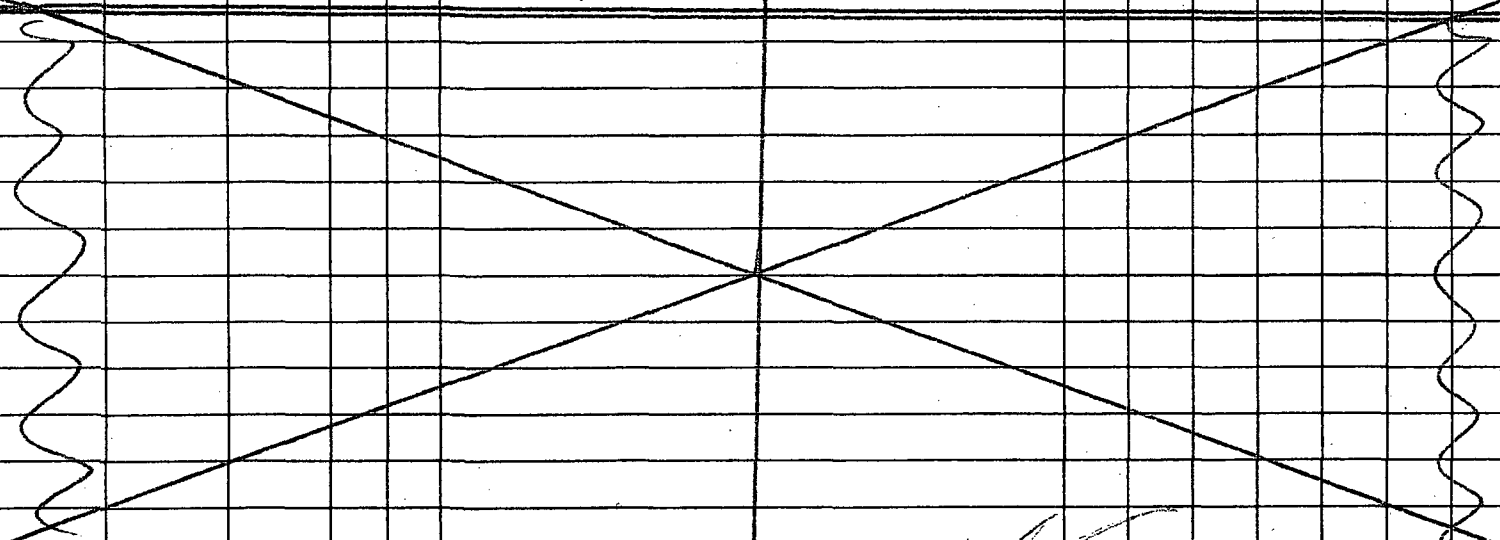
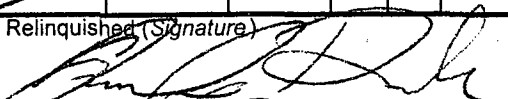
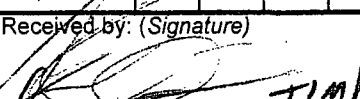


THANK
 YOU

Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		Shipped via: FedEx, UPS or Other <u>DROP OFF</u>	
<i>[Signature]</i>		11/30/10 11:46		<i>[Signature]</i> TIM F.					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks			
<i>[Signature]</i> TIM R		11-30-10 1:42		<i>[Signature]</i> Marie Holt					
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:	
								<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples:									
[] Accepted [] Declined									
Signature									

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2010110589

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
Air Monitoring		POINT RUSTON, LLC					
SAMPLERS: (Signature)						AS, Pb	
							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
11/29/10	OCF-NU		✓		8230577	1	✓
11/30/10						H-VOLUME SAMPLER LOG 1 PAGE	
						CFM DATA FOR LISTED FILTERS	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
		11/30/10 11:46				Shipped via: FedEx, UPS or Other: <u>1 ROP off</u>	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks	
		Tim R. 11-30-10 1:42		Marie Holt			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples: [] Accepted [] Declined							
Signature							



SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com


12/15/2010

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Sample Matrix: Filter
Date Sampled: 12/02/2010
Date Received: 12/13/2010
Spectra Project: 2010120320

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
8230576	1	Arsenic	< 0.05	µg/m3	SW846 6010B
8230576	1	Lead	< 0.05	µg/m3	SW846 6010B
8230575	2	Arsenic	< 0.05	µg/m3	SW846 6010B
8230575	2	Lead	< 0.05	µg/m3	SW846 6010B
8230574	3	Arsenic	< 0.05	µg/m3	SW846 6010B
8230574	3	Lead	< 0.05	µg/m3	SW846 6010B

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

a7/scj

5219 N. Shirley St., Suite 100 Tacoma, WA: 98407
Phone: 253-752-2185 Fax: 253-752-7083

7010120320

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS														
AIR MONITORING		POINT RUSTON, LLC HI-VOL																		
SAMPLERS: (Signature)																				
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER															
12/2/10	SG		✓		8230576	1	✓													
12/2/10	OCF-VI		✓		8230575	1	✓													
12/2/10	OCF-NW		✓		8230574	1	✓													
12/13/10					HI-VOLUME SAMPLER LOG	1	PAGE													C.F.M DATA FOR LISTED FILTERS
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		Shipped via: FedEx, UPS or Other <u>DROP OFF</u>												
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks														
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter												

COCForm - 4/04

PAGE 1 of 1

Split Samples:
☐ Accepted ☐ Declined

Signature



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 808-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-666-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

ANALYTICAL SUMMARY REPORT

December 08, 2010

Point Ruston LLC
5219 N Shirley St Ste 100
Ruston, WA 98407-6599

Workorder No.: B10120097

Project Name: Tacoma Smelter OCF Leachate Tank

Energy Laboratories Inc received the following 1 sample for Point Ruston LLC on 12/1/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B10120097-001	TSM111029	11/29/10 15:40	12/01/10	Aqueous	Metals by ICP, Total Metals Preparation by EPA 200.2

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Cindy Rohrer
Inorganic Department Manager

Digitally signed by
Cindy Rohrer

Date: 2010.12.08 17:01:55 -07:00

LABORATORY ANALYTICAL REPORT

Client: Point Ruston LLC
Project: Tacoma Smelter OCF Leachate Tank
Lab ID: B10120097-001
Client Sample ID: TSM111029

Report Date: 12/08/10
Collection Date: 11/29/10 15:40
Date Received: 12/01/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	1.9	mg/L	D	0.3		E200.7	12/03/10 20:43 / tao

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Point Ruston LLC
Project: Tacoma Smelter OCF Leachate Tank

Report Date: 12/08/10
Work Order: B10120097

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Analytical Run: ICP201-B_101203A		
Sample ID: ICV	Continuing Calibration Verification Standard								12/03/10 11:28
Arsenic	2.48	mg/L	0.10	99	95	105			
Method: E200.7							Batch: 50799		
Sample ID: MB-50799	Method Blank								Run: ICP201-B_101203A 12/03/10 20:32
Arsenic	ND	mg/L	0.30						
Sample ID: LCS-50799	Laboratory Control Sample								Run: ICP201-B_101203A 12/03/10 20:35
Arsenic	0.477	mg/L	0.064	95	85	115			
Sample ID: B10120123-001AMS3	Sample Matrix Spike								Run: ICP201-B_101203A 12/03/10 21:10
Arsenic	0.464	mg/L	0.064	93	70	130			
Sample ID: B10120123-001AMS3D	Sample Matrix Spike Duplicate								Run: ICP201-B_101203A 12/03/10 21:14
Arsenic	0.469	mg/L	0.064	94	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



B10120097

Login completed by: Darwin C. Miller

Date Received: 12/1/2010

Reviewed by: BL2000\kmcDonald

Received by: aki

Reviewed Date: 12/2/2010

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	9.8°C On Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

None

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

PROJ. NO TACOMA SMELTER		PROJECT NAME OCF-LEACHATE TANK		NO. OF CONTAINERS 1	REMARKS AS						
SAMPLERS: (Signature) <i>[Signature]</i>											
DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER						
11/29/10	Leachate	15:40	✓		TSM111029						
Relinquished (Signature) <i>[Signature]</i>		Date/Time 11/30/10 12:00		Received by (Signature) <i>[Signature]</i>							
Relinquished (Signature) <i>[Signature]</i>		Date/Time 11/30/10		Received by (Signature) <i>[Signature]</i>							
Relinquished (Signature) <i>[Signature]</i>		Date/Time 11/30/10		Received by (Signature) <i>[Signature]</i>							
				Lab ENERGY							
				Shipped via <input checked="" type="checkbox"/> FedEx, UPS or Other Air Bill #							
				Remarks							
				Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter							
				Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined							
				Signature							

9.8" on 16
Fed Ex Exp
Seals on bottles
At 12:00 12/1/10 11:00

THANK
YOU



Weekly Site Inspection Report No. 2010-1226

Week of: 12/26/2010 – 01/01/2011 Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
South (electric)	G	F	P	Y	N	Still some squeaks. Needs general maintenance.
Cooling Pond	G	F	P	Y	N	
Peninsula	G	F	P	Y	N	
54 th Street (electric)	G	F	P	Y	N	
Signage:						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	
51 st & Gallagher	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	G	F	P	Y	N	
Waddles	G	F	P	Y	N	
Silt Fence	G	F	P	Y	N	
(Other)	G	F	P	Y	N	See Notes
Strom drains clean:						
Lower Site	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	
Dust:						
Traffic areas	G	F	P	Y	N	Wet soil conditions
Excavation area	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	G	F	P	Y	N	See Notes
Zone Separation	G	F	P	Y	N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
Cameras:						
Stack Hill	G	F	P	Y	N	
Lower Site	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2010-1226
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						Preparing response to comments
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	Revising Appendix G (Air Monitoring)

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:	Cooling Pond: Tampering with Cooling Pond pump. Electrical panel found open & breaker turned off on Monday. Turned back on and installed lock on panel. (Malicious Mischief reported)
	Fencing: Thursday - Site perimeter fence damaged by vehicle about 250' S. of tunnel due to speed too fast for icy conditions. Fence still intact, but damaged. Silt fence also damaged. To be repaired when conditions are safe for workers. (Hit & Run report declined by police.)
	BMP's: High winds buckled a section of swale liner near viewpoint on Stack Hill. Repaired 12/30/10.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 26	N	N	No RA activity. Wet Conditions.
Mon 27	Y	N	Light Remediation Activity along vacated section of 52 nd St to make long term clean staging area for pump truck to access OCF leachate storage tank. Wet Soil Conditions. (Back hoe / Dump Truck)
Tue 28	N	N	No RA activity. Wet Conditions.
Wed 29	N	N	No RA activity. Wet Conditions.
Thu 30	N	N	No RA activity. Wet/Freezing Conditions.
Fri 31	N	N	No RA activity. Wet/Freezing Conditions.
Sat 1	N	N	No RA activity. Wet/Freezing Conditions.

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 26	37°/45°; Wind SSW 1-2mph(am) 5-10mph (10:00-24:00)/Gust 22mph (12:00-14:00); Precipitation (14:00-16:00 & 24:00) 0.32"	
Mon 27	37°/47°; Wind S 5-10mph (24:00-13:00) Calm (13:00-23:00)/Gust 16mph (23:50); Precipitation (00:00-03:00 & 15:00-20:00) .52"	
Tue 28	39°/47°; Wind SSW 4-10mph (Calm 11:00-13:00) NNE 4-10mph (14:30-24:00)/Gust 18mph (01:45); No Precipitation	
Wed 29	32°/41°: Wind S 1-6mph (sporadic)/Gust 10mph (01:00 & 22:00); Precipitation (14:00-16:00) .12"	
Thu 30	25°/36°; Wind NNE 3-9mph (00:00-17:00) Calm (17:00-24:00)/Gust 13mph (01:00); No Precipitation	
Fri 31	21°/32°; Wind S Calm; No Precipitation	
Sat 1	24°/36°; Wind S Calm; No Precipitation	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 01/03/2011

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2010 - 1205

Week of: 12/05 – 12/11, 2010

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
South (electric)	G	F	P	Y	N	Needs general maintenance (Lube/Alignment/Adjustment, etc)
Cooling Pond	G	F	P	Y	N	
Peninsula	G	F	P	Y	N	
54 th Street (electric)	G	F	P	Y	N	Gate stopped working 11/09 (See Notes)
Signage:						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	
51 st & Gallagher	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	G	F	P	Y	N	
Waddles	G	F	P	Y	N	
Silt Fence	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	G	F	P	Y	N	See Notes
Stack Hill	G	F	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	
Dust:						
Traffic areas	G	F	P	Y	N	Wet soil conditions
Excavation area	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	G	F	P	Y	N	
Zone Separation	G	F	P	Y	N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
Cameras:						
Stack Hill	G	F	P	Y	N	
Lower Site	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2010 - 1205
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						Preparing response to comments
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: Gates: South gate runs a little rough and squeaks. Needs general maintenance to prevent break down.
Gates: 54 th Street Gate stopped working on night of 12/09. Short days result in lack of solar panel charge. Plugged in backup charger / works fine 12/10.
Storm drains clean: Channeled OCF storm water to OCF pond. Previous LID work altered drainage on surface.
Fencing: Rolling up extra orange fencing and storing for winter (in progress). Maintaining outer perimeter of Exclusion Zone.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 5	N	N	No RA activity. Wet Conditions.
Mon 6	N	N	No RA activity. Wet Conditions.
Tue 7	N	N	No RA activity. Wet Conditions.
Wed 8	N	N	No RA activity. Wet Conditions.
Thu 9	N	N	No RA activity. Wet Conditions.
Fri 10	N	N	No RA activity. Wet Conditions.
Sat 11	N	N	No RA activity. Wet Conditions.

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 5	32°/48°; NE wind 1mph/Gust 3mph; No Precipitation	
Mon 6	32°/47°; SSE wind 1mph/Gust 4mph; No Precipitation	
Tue 7	45°/51°; SSW wind 1mph/Gust 12mph; Precipitation (evening to midnight) 0.32"	
Wed 8	47°/55°; SSW wind 6mph/Gust 16mph; Precipitation (scattered) 2.7"	
Thu 9	44°/49°; SSW wind 5mph/Gust 12mph; Precipitation (scattered) 2.66"	
Fri 10	41°/48°; SSW wind 7mph/Gust 10mph; Precipitation (early morning) 0.2"	
Sat 11	39°/56°; SSW wind 1mph/Gust 9mph; Precipitation (afternoon till late eve.) 1.44"	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 12/13/2010

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2010-1212

Week of: 12/12 – 18, 2010

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
South (electric)	G	F	P	Y	N	Needs general maintenance (Lube/Alignment/Adjustment, etc)
Cooling Pond	G	F	P	Y	N	
Peninsula	G	F	P	Y	N	See Notes
54 th Street (electric)	G	F	P	Y	N	
Signage:						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	
51 st & Gallagher	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	G	F	P	Y	N	
Waddles	G	F	P	Y	N	
Silt Fence	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	G	F	P	Y	N	Maintained surface drainage from OCF to Pond
Stack Hill	G	F	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	
Dust:						Wet soil conditions
Traffic areas	G	F	P	Y	N	
Excavation area	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	G	F	P	Y	N	
Zone Separation	G	F	P	Y	N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
Cameras:						
Stack Hill	G	F	P	Y	N	
Lower Site	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2010-1212
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans: Site Superintendant Construction Super. Other						Preparing response to comments
	G	F	P	Y	N	
	G	F	P	Y	N	
	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:	Weather: About 4" rain between Sun, Mon & Tues accompanied by strong winds.
Docks:	(Category previously deleted); NOTE: Work completed & contractor totally de-mobilized by Friday.
Gates:	Sunday mudslide blocked Yacht Club Rd. Site personnel escorted authorized members & guests in vehicles from 54 th St. gate to Yacht Club gate via clean haul road along OCF to N. Outfall, then along shoreline to yacht club. Gates remained closed when not attended. Yacht Club Rd. reopened Mon. afternoon & thru-site access was terminated.
Cooling Pond:	Pump clogged with mud from pond embankment due to heavy rains. Used gas pump to lower water level, unclog and relocate electric pump.

Air Monitoring:

Day of Week		Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	12	N	N	No RA activity. Wet Conditions.
Mon	13	N	N	No RA activity. Wet Conditions.
Tue	14	N	N	No RA activity. Wet Conditions.
Wed	15	N	N	No RA activity. Wet Conditions.
Thu	16	N	N	No RA activity. Wet Conditions.
Fri	17	N	N	No RA activity. Wet Conditions.
Sat	18	N	N	No RA activity. Wet Conditions.

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	12	53°/57°; SSW wind 9mph/Gust 11mph; Precipitation (scattered) 2.19"
Mon	13	49°/56°; South wind 2mph/Gust 12mph; Precipitation (early morning & evening) 0.9"
Tue	14	39°/50°; SSW wind 7mph/Gust 15mph; Precipitation (morning) 0.96"
Wed	15	38°/47°; South wind 4mph/Gust 7mph; Precipitation (late evening) 0.08"
Thu	16	37°/45°; South wind 0mph/Gust 0mph; No Precipitation
Fri	17	32°/46°; NE wind 0mph/Gust 4mph; No Precipitation
Sat	18	37°/49°; SE wind 2mph/Gust 10mph; Precipitation (morning) 0.36"

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 12/22/12/20/2010 SIGNED:  Tim R.

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2010-1219

Week of: 12/19 – 25, 2010

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
South (electric)	G	F	P	Y	N	Still some squeaks. Needs general maintenance.
Cooling Pond	G	F	P	Y	N	
Peninsula	G	F	P	Y	N	
54 th Street (electric)	G	F	P	Y	N	
Signage:						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	
51 st & Gallagher	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	G	F	P	Y	N	
Waddles	G	F	P	Y	N	
Silt Fence	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	See Notes
Strom drains clean:						
Lower Site	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	
Dust:						Wet soil conditions
Traffic areas	G	F	P	Y	N	
Excavation area	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	G	F	P	Y	N	
Zone Separation	G	F	P	Y	N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
Cameras:						
Stack Hill	G	F	P	Y	N	
Lower Site	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2010-1219
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						Preparing response to comments
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	Revising Appendix G (Air Monitoring)

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:
BMP's: High winds buckled a section of swale liner near viewpoint on Stack Hill. Needs maintenance.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 19	N	N	No RA activity. Wet Conditions.
Mon 20	N	N	No RA activity. Wet Conditions.
Tue 21	N	N	No RA activity. Wet Conditions.
Wed 22	N	N	No RA activity. Wet Conditions.
Thu 23	N	N	No RA activity. Wet Conditions.
Fri 24	N	N	No RA activity. Wet Conditions. Hi-Vols calibrated per CHSP/CP Appendix G
Sat 25	N	N	No RA activity. Wet Conditions.

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 19	34°/45°; ENE wind 1mph/Gust 5mph; Precipitation (late evening) 0.2"	
Mon 20	36°/44°; SSW wind 0mph/Gust 3mph; Precipitation (early morning) 0.04"	
Tue 21	38°/49°; ESE wind 0mph/Gust 4mph; No Precipitation	
Wed 22	40°/50°; SW wind 1mph/Gust 6mph; No Precipitation	
Thu 23	°39/48°; S wind 0.5mph/Gust 8.7mph(am), N wind 0mph(pm); Precipitation (12:30-18:30) .24"	
Fri 24	°43/50°; SSE wind 0mph/Gust 4mph (12:00 & 21:00); Precipitation (late evening) .22"	
Sat 25	°44/50°; SSW wind 0.9mph/Gust 11.2mph(21:00-22:00); Precipitation (early AM .18" & late PM .16") .34"	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 12/27/2010

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer